

VIDEO ADAPTIVE SCANNING LINE INTERPOLATING DEVICE

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Abstract

PURPOSE: To prevent the fading of a vertical outline by detecting the degree of the correlation of original video signals adjacent vertical direction and diagonal direction on adjacent scanning lines and controlling a weighting in an equalizing direction between the adjacent scanning lines.

CONSTITUTION: When the absolute value $|a-f|$ of a diagonal differential signal outputted from an absolute value circuit 43 is selected as a minimum value, a minimum value selecting circuit 44 changes over switches 51, 52 to positions of lower steps, supplies video signals (f), (a) to coefficient multipliers 46, 47. When a rightward and downward diagonal line appears in a screen, an interpolating signal (i) by the synthesis of the video signals (a), (f) existing on the diagonal line is outputted from an interpolating signal output terminal 3. When any minimum value is selected, if the value is larger than a certain value, outputs (d), (e) or (f) of the coefficient multiplier 46 are outputted as they are as the interpolating signal (i) from the output terminal 3. Thereby, the fading of a vertical outline is effectively avoided.

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